

Object-based collective communication in Java

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A Nelisse, T Kielmann, HE Bal, J ... - Proceedings of the 2001 ... 2001 - portal.acm.org
... objects implementation. Iterators request the individual items of a **complex object** sequentially, one after the other. Object serializa- tion, as used by Java RMI, is one example of iterating a **complex object** structure. Unlike iterators ...
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... **Object serialization**, as used by Java RMI, is one example of iterating a **complex object** structure. Unlike iterators, however, CCJ needs random access to the individual parts of a dividable object based on an index mechanism. ...
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... using an object- oriented language environment such as Java KA96], application objects typically refer to many other application objects resulting in **complex object** hierarchies. ... We can, for example, simply store copies of application objects to a le by **Object Serialization** Sun]. ...
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... Our model does not allow arbitrarily **complex object** graphs to be replicated, but deliberately imposes restrictions to ob- tain a clear programming model and high ... For transferring parameter objects, the standard **object serialization** method from Manta's RMI protocol is used. ...
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... They just have to use the Java **Object Serialization** mechanism, by implementing the java.io.Serializable interface. ... the basic patterns of the Progressive Im- plementation Method (Pim)
[4]. Pim is a method for the systematic implementation of **complex object**-oriented applications ...
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... with a constructor 4) a more **complex object** with primitive variables 5) objects which instantiate other objects 6) arrays of varying type and size 1 Exception measures the speed at which exceptions can be thrown and caught. The benchmark includes three cases: throwing j ava. ...
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... A second issue to be dealt with for the ubiquitous computing platforms targeted by Jecho is that the **object serialization** protocol is not currently supported on all editions of the Java virtual machine. ... Benefit of this is obvious when sending a **complex object** to multiple destinations ...
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... Finally, since Java remote calls [18] use serialization [17] for passing **complex object** structures between different address spaces, the transient keyword can be used to indicate a field that is not part of an object's persistent state and should not be serialized. ...
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